

Section 1: Overview and bibliography of the literature of socio-economic relevance to the fisheries of Lake Victoria

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1. Introduction

The object of this paper is to provide a brief over-view of the literature of socio-economic relevance to the fisheries of Lake Victoria. The bibliography that follows is by no means exhaustive, but should provide the reader with a guide to the more important documents on Lake Victoria's socio-economy.

2. Marketing studies

Papers which mention Lake Victoria's fish markets and the means by which fish arrives at these markets are as follows: Abila, 1995; Abila and Jansen, 1997; Abila *et al.* n.d.; Beverton, 1959; Copley, 1953; Dobbs, 1927; Fearn, 1961; Garrod, 1960, 1961; Gibbon, 1997a; Graham, 1929; van der Hoeven and Budeba, 1993; Jansen, 1997; KMFRI, 1994; Kirema-Mukasa and Reynolds, 1989, 1990a, 1990b, 1991; Kitakule, 1991; Maembe, 1990; Mann, 1969; Oduor-Otieno *et al.*, 1978; Ogunja, 1992; Reynolds and Greboval, 1988; Reynolds *et al.*, 1995; Reynolds and Kirema-Mukasa, 1989a, 1989b; Reynolds and Odongkara, 1989b; UNDP/FAO, 1990; Whitehead, 1959.

Typically, these studies do not consider consumers as a component of the marketing chain. They do, however, provide a great deal of useful information. Maembe's (1990) study of fish marketing chains in Tanzania describes the spread of Tanzanian catches in to neighbouring countries, while Gibbon's (1997) paper also provides data in this regard, along with information on fish marketing chains from Lake Victoria and eastwards to Tanga, Dar es Salaam and elsewhere. The latter also attempts to quantify some of these flows. The IFIP work (Reynolds and Kirema-Mukasa, 1989a, 1989b; Reynolds and Odongkara, 1989b) in Uganda provides detailed information of fish flows from Lake Victoria within Uganda and to neighbouring countries. Marketing studies within Kenya have tended to be far more localised (cf. Abila, 1995; Abila *et al.*, n.d.) and mainly examine fish marketing within Kisumu and nearby. The majority of studies focussing on the Nile perch export industry, however, are derived from Kenya (Abila and Jansen, 1997; Jansen, 1996; KMFRI, 1994). Nevertheless, some fairly detailed information concerning Tanzania's international Nile perch market may be derived from Gibbon (1997) and van der Hoeven and Budeba (1993). Reynolds and Greboval (1988) consider this trade from a regional perspective. Interestingly, many of the studies here referred to consider processing to be a component in the marketing process, and several will examine processing thoroughly.

3. Management

Literature on the management of Lake Victoria's fisheries reviewed for this paper are as follows: Dunn and Ssentongo, 1992; Greboval, 1989, 1990a; Ogutu, 1993; Okemwa, 1995; Okidi, 1992; Riedmiller, 1994; Geheb, 1997; Government of the Republic of Kenya *et al.*, 1995; Jansen *et al.*, 1999; Wilson, 1993a, 1993b; Wilson *et al.*, 1996. Older literature of

managerial interest (cf. Worthington and Worthington, 1933; Graham, 1929; Beaucamp, 1954, 1955, 1956; Beverton, 1959) are not reviewed.

Most of the literature on Lake Victoria's fisheries management laments the apparent lack of it upon the lake. Riedmiller's (1994) paper, along with that of the Government of the Republic of Kenya *et al.* (1995), examines the problems arising from low levels of regulatory enforcement. Some of the work considers what fishers might think of regulations and regulatory institutions (Wilson, 1993a; Geheb, 1997). Other work sets forth proposals for state-based managerial intervention upon the lake (Dunn and Ssentongo, 1992). There are several papers that call for co-management and/or the involvement of fishing communities in the formulation of managerial policy and enforcement, although few examine it in any great detail (cf. Wilson *et al.*, 1996). Despite some fairly significant inputs into the discussion on Lake Victoria's management, the body of literature on the subject remains fairly small.

4. Changes to the structure of the fishery

Changes to the structure of the fishery are typically examined from the perspective of two dual processes, the first being the profound impact of the Nile perch introduction and the rise of this fishery, while the second is the increasing commercialisation of the fishery occasioned by the Nile perch. The literature typically portrays an image of profound structural change within the fishery since the commencement of the Nile perch 'boom'. It focuses, in some cases, on the increasing vertical integration of the fishery with industries and markets located, in some cases, far from the lake shores (Reynolds and Greboval, 1988; Reynolds *et al.* 1995; Harris, 1992; Harris *et al.*, 1995). Changes have also been considered within the fishery itself, *vis a vis* changes within labour relations (Asowe-Okwe, 1989, 1993, 1996) and in gender roles (Medard and Wilson, 1996). Much of the literature comments on the shift in ownership of fishing capital away from the lake shores, and that the shift is often in to the hands of people or organisations who have had little or no connection with the fishery previously. The shifts that have occurred to the fishery's markets has occasioned comment that this may result in a decrease in the amount of fish available to local consumers (Jansen, 1996; Abila and Jansen, 1997), both in terms of exports to the international market, as well as the rise of the fish meal industry.

5. Base-line data

What base-line data there is available for this fishery is scattered and often inconsistent due to the very changeable variables measured. State-based estimates of catch tonnage are fairly wide-spread and contained in government statistical abstracts, Fisheries Department reports and FAO documentation (cf. Vanden Bossche and Barnacsek, 1990; Greboval and Fryd, 1993). Two base-line surveys of socio-economic data exist for Kenya (Hoekstra *et al.*, 1991; Hoekstra, 1992), while in Uganda a variety of fisheries statistics have been collected under the IFIP/FISHIN' surveys (cf. Kirema-Mukasa and Reynolds, 1989, 1990a, 1990b; Kitakule, 1991; Odongkara, 1989a, 1989b, 1990; Reynolds and Odongkara, 1989a, 1989b, 1989c).

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